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Dear Dan:

As you know we have had several discussions with Art L. considering the advisability of developing an interim printer for sorting out the B configuration film. We have made some experiments with Morse printers and feel that we can modify these to print each roll separately. This is not an optimum solution but we can do the work comparatively simply and at low cost, and the results will temporarily satisfy Art's requirements.

We propose to take three Morse printers previously furnished by you and utilize the printing frame although practically everything else will be changed. We will provide a distant U.V. light source and a new shutter. The air bag platen which is now hinged will be rearranged to operate vertically and will be powered by an air cylinder. The raw stock advance will be motorized by means of a metering roller and a Geneva movement.

The negative film advance will be similarly motorized except that the mechanisms must permit advancing the film in steps 1, 3, 5 and 10 frames to conform to the B configuration. This drive will, therefore, be direct from a gear motor timed by means of adjustable cams. Mechanically aligning the negative frames will be prohibitive because of cost and will be done manually as slight offsets are not objectionable.

Supply and takeup of both negative and raw stock will be coupled to torque motors and they will be controlled through variacs. Tension rollers will be incorporated on both supply and takeup sides of the printer.

Generally, the operation will be as follows: The operator will have an electrical switch to operate the advance of the negative; the raw stock will advance automatically when the air platen is lifted; the negative frame is manually aligned and the air platen is operated by a foot switch and the print is made; the platen then returns to its original position and the sequence is repeated.

We have not made a detailed estimate of the cost of modifying these three printers but we have made designs and

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mock ups and we roughly estimate that modification of the three printers will be in the neighborhood of \$18,000. We would suggest that this work be done as an extension of PO-660 as it does not justify a separate contract. We will keep a record of all costs incurred on the job.

ELG/njm
cc: J.L.B.


E. L. G.